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ABSTRACT

The 266 items cited include material published since July 1960, organized in the following ten groups: (1) general discussion, and feasibility; (2) statewide electronic data processing (EDP) systems; (3) EDP in local governments; (4) intergovernmental EDP systems; (5) EDP in the planning agency; (6) data banks and information systems; (7) computer graphics; (8) information retrieval; (9) time-sharing and user-oriented systems and (10) models, gaming, simulation, and operations research techniques. Publications by or about Federal Government EDP installations and their applications are excluded. In addition, no attempt was made to cover all works involving the use of EDP in state or local governments. Specifically omitted are those writings that pertain to such limited applications as tax billings, payroll or other accounting procedures, or specialized fields such as police work or hospital administration. The references chosen in the governmental categories are either known or thought to be concerned with general uses which could conceivably include planning. Other limitations include the virtual absence of foreign sources and no attempt was made to cover the field of traffic, transportation, or highway uses of EDP. (Author/MF)

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COMPUTERS AND INFORMATION SYSTEMS IN PLANNING AND RELATED GOVERNMENTAL FUNCTIONS

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COMPUTERS AND INFORMATION SYSTEMS IN PLANNING AND RELATED GOVERNMENTAL FUNCTIONS

July 1960 to December 1967

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List of Periodicals Devoted to EDP

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Introduction

The original subject of this bibliography was to have been limited to EDP in planning. The intention was to cite only references relating to planning applications of EDP and the uses being made by planners of EDP equipment, especially computers.

However, because public planning agencies have both functional and organizational interrelationships with so many other governmental units, it became clear that such a limitation would be both difficult for the compiler and impractical for the user. Thus "EDP in the Planning Agency" became one topic within the broader scope implied by the present title.

This decision did not solve all problems. For example, although ten major topics were selected, there are many references that could fit into more than one of them. References appear only once, however; thus the user is advised to consult not just one of the topics, but all topics where overlap might conceivably occur. The topic classifications serve more as "breaks" than they do as definitive categories.

This list, for the most part, includes material published since July 1960. Exchange Bibliography No. 15, "Automatic Data Processing in the Urban Planning Process," by Richard D. Duke, dated June 1960, lists pertinent references up to that date.

Publications by or about Federal government EDP installations and applications will not be found in this bibliography. In addition, no attempt was made to cover all works involving the use of EDP in state or local governments. Specifically omitted are those writings that pertain to such limited applications as tax billings, payroll or other accounting procedures, or specialized fields such as police work or hospital administration. The references chosen in the governmental categories are either known or thought to be concerned with general uses which could conceivably include planning, if not in fact already doing so. If the source agency is the planning staff, the listing was put under EDP in Planning; if the subject is specifically an information system or data bank at any level, then that heading was used rather than the appropriate governmental one. This illustrates why there is considerable and unavoidable overlap within the selected topics.

Other limitations include the virtual absence of foreign sources (there are a few exceptions). Also, no attempt was made to cover the field of traffic, transportation, or highway uses of EDP even though, admittedly, this is a planning-related field. Some material of this nature is cited, especially if the emphasis is on land use.

Some of the references are of a very elementary nature and are intended for the novice. Others are highly sophisticated and would completely lose the neophyte. This situation reflects the state of the art, not necessarily in the chronological sense (some of the earliest references describe advanced applications), but in the sense that computer technology in some planning and other governmental agencies is a well-entrenched and on-going function while in others they have only begun to think about its possibilities. Both extremes, plus those in the middle, should find useful material listed herein.

Within the texts of these published works, a range of attitudes may be found, from claims that "computers will be the salvation of our cities" to pessimistically-phrased questions of whether EDP is worthwhile. But whether one or the other extreme is right is not at issue. That computer-based systems for processing and analyzing information are a tool which might be helpful to planners and other public administrators in their attempts to find answers is generally accepted. Only the "when" and "how" continue to elude.

It is hoped that this bibliography will be useful to those making such a search.

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